MODEL PAPER MATHEMATICS GENERAL CLASS 9

Note: Attempt all questions of Section A by filling the corresponding bubble on the MCQs RESPONSE SHEET. It is mandatory to return the attempted MCQs sheet to the Superintendent within given time.

SECTION-A

Q1:	Choose	the	correct	option.
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Allowed time 20 minutes Maximum Marks 15

1.	Ratio between	n 4 grams and	12 grams in sir	nplest fo	rm is			
	a. 1:1	b. 1:2	c. 1:3	d. 1:4				
2.	If X:3::8:6 is	6 is a proportion then X =						
	a. 4	b. 6	c. 8	d. 24				
3.	Zakat payable	on Rs. 50000 is						
	a. Rs. 1300	b. Rs. 1240	c. Rs. 1250	d. Rs. 1	L215			
4.	If cost price is	Rs. 430 and sa	le price is Rs. 4	188. The	profit is Rs			
	a. 56	b. 58	c. 48	d. 68				
5.	Marked price	is Rs. 550. Sale	price is Rs. 41	8. Disco	unt percentage	e is		
	a. 24%	b. 22%	c. 21.5%	d. 23%				
6.	Markup is the profit received by							
	a. Customer b. Bank c. Government d. Organization							
7.	7. Property Tax = Rate X							
	a. Price of item b. Value of property							
	C .Excise Duty d. Capital value tax							
8.	GST stands for	1.10			. + C+ T			
	a. General Sa	ales Tax	b. Go	vernmer	it Standard Ta	X		
	C .Governmer	nt Simple Tax	d. Gra	and Servi	се Тах			
9.	x * x =							
	a. X^{mn}	b. X^{m+n}		c. <i>X</i> ^{<i>m</i>} ,	/n	$d. X^{n/m}$		
10.	. Log ₂ X = 3, the							
	a. 8	b. 9	c. 6	d. 23				
11.	. Arithmetic me	ean between 6						
	a. 8	b. 4	c. 12					
12.	. Geometric me	ean between 3	and 27 is					
		b. ±6						
13.	. (A')' =							
	a. A'	b. Empty Set	c. A		d. U			
14.	. The point (-3 ,	4) is located in	n			0000		
	a. 1 st Quadra	int b. 2 nd	Quadrant	c. 3 rd C	Quadrant	d. 4th Quadrant		
15. In the data {2, 3, 7, 2, 9, 4}, mode is								
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a. 3

b. 1

c. 9

d.

Time: 2Hours 40 Minutes

Marks: 36

Q1. Attempt any 9 of the following short questions. Each question carries equal marks.

- 1. Hafsa got 84% of the total marks in her annual examination. If she had obtained 861 marks. Find out total marks in the examination?
- 2. Hafeez had trade goods worth Rs.175,000 and a cash amount of Rs. 90,000. If his wife possessed jewelry worth Rs. 84,000, find the amount of zakat payable by him?
- 3. Ali bought 8 dozen eggs at the rate of Rs. 70 per dozen. 6 eggs were found broken. He sold remaining eggs at the rate of Rs. 7 per egg. Find his profit or loss.
- 4. Mr. Jawad deposits Rs. 90,000 in a Profit Loss Saving (PLS) account. If the profit rate is 12% then how much profit would he get after two months
- 5. If the worth of the property of a person is Rs. 5,000,000. How much tax would he pay at the rate
- 6. Simplify: $\sqrt{\frac{X^b}{X^c}} \times \sqrt{\frac{X^c}{X^a}} \times \sqrt{\frac{X^a}{X^b}}$
- 7. $\log_8 x = \frac{4}{3}$
- 8. Find the 10th term of an Arithmetic Progression (AP) 18, 15, 12, 9, . . .
- 9. Find three geometric means between $\frac{1}{27}$ and 3.
- 10. Plot the points W,X,Y and Z in the XY plane: W(3,1), X(-2,-4), Y(-5,6), Z(3,-3).
- 11. Salam has a post-paid connection. Last month he consumed a total of 3 hours and 20 minu time for calls. If per 30 seconds call charges is Rs.0,50, then what was his bill?
- 12. If X = {1, 2, 3} and Y={4, 5, 6}, Write an ONTO function from X to Y

SECTION - C

Marks: 24

Note: Attempt any three of the following. Each question carries equal marks.

- Q2. 12 men take 5 hours to spray insecticides on fruit trees spread over 40 hectares. How many men will be required to spray 32 hectares area in 8 hours?
- Q3. Draw the graph of equation: 3x + y = 6
- Q4. From the following distribution

Daily Wages (In Rupees)	112 – 116	117 – 121	122 – 126	127 – 131	132 – 136
Number of Workers	3	20	11	4	5

- Construct a table.
- ii. Find the class boundaries for each group
- iii. Calculate Median wages.

Q5. If $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 2, 3\}$, $B = \{3, 4, 5\}$. Then with the help of Venn diagram verify www.allmakidu

Demorgan's Law: $(A \cup B)' = A' \cap B'$